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Abstract

Disclosed are an apparatus and a method for YC separation and threeline correlation detection with high accuracy, which allow the YC separator to
generate reliable Y signals. The correlation detecting apparatus includes a
sub-correlation detector. The detector checks input signals for the presence or
absence of vertical correlation, and provides the signals with a judgment "highcorrelation exists" or "otherwise". According to the judgment, the correlation
detecting apparatus changes the process: i) when accepted the judgment "highcorrelation exists", the apparatus determines the judgment to be reliable and
adopts it as the output, ii) when accepted "otherwise", the apparatus increases
its detecting accuracy and provides the signals with multi-leveled outputs
according to the correlation levels. In this way, the main apparatus switches
the detecting mode according to the result from sub-correlation detector, with
the detecting accuracy greatly improved. This also allows the YC separator to
flexibly cope with input signals.